

# MUNICIPAL JOURNAL

## INDEX VOLUME XXX JANUARY-JUNE 1911

### General Index

Abattoir in Amsterdam, Municipal.....	889	Crematories at Houston, Refuse.....	84	Illinois Water Survey.....	855
Aberdeen, Wood Block Paving in.....	357	Cresote, Analyzing Coal Tar.....	520	Illumination, Street.....	17
Accounting, Street Cleaning.....	813	Cresoting Wood Blocks in England.....	122	Imhoff Patents, The.....	324
Aims and Purposes, Our.....	25	Curbs and Sidewalks, Repairing.....	290	Tanks, The—An Explanation.....	55
Aqueduct, Elizabeth Tunnel, Los Angeles.....	411	Street Names on.....	481	Improvements in Mexico, Municipal.....	575
Architecture, High Buildings and City.....	814	Dam Construction, Masonry.....	839	Incinerator, Milwaukee.....	198
Ashes, Removal of Domestic.....	542	Data on Request, Furnishing.....	165	Information Bureau, City.....	579
Asphalt Oils, Wood Preserving with.....	158	Dayton Water Works.....	256	Kansas City, Concrete Paving in.....	776
Pavement Construction.....	744	Daytona, Water Rates at.....	288	Rapid Road Building in.....	50
Plant, Denver Municipal.....	668	Death Rates, Diminishing.....	447	Laboratory and Field Investigations.....	889
Repairing in Reading.....	777	Dedication of Platted Streets.....	479	Ohio State Road.....	700
Streets, Oils on.....	410	Delaware, Road Building in.....	711	Lebanon, Sanitation at.....	26
Assessments, Excess Condemnation.....	920	Denver Municipal Asphalt Plant.....	668	Liability for Impure Water.....	259
Association for Highway Improvement.....	711	Street Signs.....	415	for Water Supply.....	165
Atlanta, Wood Block Pavements of.....	355	Disinfecting Swimming Pools.....	577	of Municipal Officers.....	51
Automobile Service, Municipal Garage and.....	223	Dredge for Sewage Channels, Small.....	198	Libraries, Municipal Reference.....	82
Baths, Pollution of Water in Public.....	260	Duluth, Water Rates in.....	416	Life of Water Works Construction.....	155
Beautifying Municipal Property.....	746	Dust Prevention and City Streets.....	811	Light Plant, Greenwood Water and.....	640
Berlin Waste Utilization Plant.....	291	East Orange, Water Rates in.....	287	Lighting a Small City, Paving and.....	194
Bidding in Toronto, Municipal.....	477	Efficiency Records.....	774	Automatic Street.....	776
Bids for Municipal Work, Low.....	485	Electric Plant, South Norwalk Municipal.....	411	by Porch Lights in Greenwood, Street.....	52
Billboard Decision, Missouri.....	888	Plant, Wallingford Municipal.....	518	Chicago Street.....	196
Binder and Aggregate, Bituminous.....	85	Electrolytic Purification.....	193	During 1910, Street.....	19
Bituminous Binder and Aggregate.....	85	Emscher Tanks for Erie.....	228	Gas and Electric Street.....	26
Concrete and Macadam.....	123	Erie, Emscher Tanks for.....	228	in Cincinnati, Street.....	289
Concrete Roadways.....	231	Water Situation in.....	323	in Several Cities, Street.....	923
Road Work, Terms Used in.....	359	Esthetic and Commercial Characteristics.....	858	in Wichita, Cheaper Street.....	664
Bordentown, Sewage Disposal Works at.....	441	Estimates, Reliability of.....	260	Intense Street.....	47
Boston, Smoke Abatement in.....	890	Excavation and Concrete.....	292	Unsatisfactory, Private Street.....	21
Boulevards, St. Louis Parks and.....	79	Exhibit and Conference, City Planning.....	739	Los Angeles Aqueduct, Elizabeth Tunnel.....	411
Bozeman, Concrete Pavement in.....	10	by Sewerage Commission.....	917	Louisville Water Works Filters.....	775
Brick Pavement Details.....	197	Canadian Public Health.....	197	Macadam in California, Oil.....	357
Pavements, Motion in.....	197	Filter, Chimney for Ventilating.....	258	Macadam Roads, Specifications for.....	707
Paving Specifications.....	544	Covered Sprinkler.....	258	Specifications, Oil.....	702
Rattler, New Standard.....	353	Experiments, Sprinkling.....	635	Madison, Wis., Street Work in.....	701
Bridge, Concrete Arch Roadway.....	771	Plant, A Russian Trickling.....	158	Wis., Water Notes.....	666
Bridges in Colorado, Road.....	706	Plant for Suburban Community.....	1	Magnesium Chlorate for Removing Snow.....	122
Bronx Experimental Road, The.....	691	Sprinkling.....	1	Manholes in Winnipeg.....	448
Budget Exhibit in Hoboken.....	670	Filters, Grand Forks Rapid Sand.....	883	Market House, Fort Wayne.....	409
Buffalo's Forestry Department, Work of.....	115	Louisville Water Works.....	775	Massachusetts Experiment Station.....	549
Buildings and City Architecture, High.....	814	Odors from Sprinkling.....	259, 290	Institute of Technology.....	547
Business Proposition, City as a.....	24	on Typhoid Rates, Effect of.....	322	Road Work in.....	699
Cabinet, the Mayor's.....	225	Filtration and Typhoid, Washington.....	86	Mayor's Cabinet, The.....	225
Calgary, Municipal Ownership in.....	415	Legislation Against Rapid.....	547	Mayors, State Conference of.....	548
Cars, Overcrowding Street.....	156	Multiple.....	855	Memphis, Water Waste Survey in.....	847
Catch Basin Designs.....	612	of Water, Double.....	193	Meter Installation and Maintenance.....	416
Basins in Newport.....	619	Plant, Operation of Washington.....	160	Reading Directions.....	919
Chatham—Madison Sewage Disposal Works.....	317	Fire Boxes, Police Signals and.....	778	Mexico, Municipal Improvements in.....	575
Chicago Street Lighting.....	196	College, New York.....	121	Michigan Highways, Specifications for.....	698
Street Paving Report.....	665	Hydrant Rates.....	842	Milk Regulations, New York.....	293
Chlorine for Sterilizing, Amount of.....	322	Hydrant Rates—A Correction.....	889	Milwaukee Incinerator.....	198
Cincinnati, Pure Water Saves Lives in.....	323	Hydrants, Use of.....	667	Refuse Incinerator.....	446
Street Lighting in.....	289	System, Oklahoma City's.....	543	Minneapolis Water Works Report.....	85
Cleaning Accounting, Street.....	813	Forestry Department, Work of Buffalo's.....	115	Missouri's Diversified Roads.....	700
and Refuse Disposal, Street.....	15	Fort Wayne Market House.....	409	Models, Construction of.....	915
Machine, Street.....	543	Fountains, The Cost of Drinking.....	543	Montgomery Refuse Destructor.....	117
of Streets, Control and.....	811	Garage and Automobile Service, Municipal.....	223	Municipal Body, A Semi-Official.....	227
Coagulating Non-Alkaline Water.....	166	Garbage at Newport, Disposal of.....	446	Ownership in Calgary.....	415
Coal by Specifications, Purchasing.....	918	Collection.....	120	New Orleans, Sewage Pumping in.....	256
Columbia Water Works.....	191	Disposal at Pasadena.....	125	Sewer Cleaning in.....	257
Comfort Station in Genoa, Public.....	122	Disposal, Control of.....	633	Water Rates in.....	286
Station, Park Entrance and Public.....	513	Value of New York's.....	611	Newport, Catch Basins in.....	619
Commercial Characteristics, Esthetic and.....	858	Gas, Sampling Fuel.....	225	Disposal of Garbage at.....	446
Commission Government.....	253	Grades, Establishing Street.....	920	New York City Slow Pay.....	548
Government, Cities Having.....	24, 81	Grand Forks, Pavements in.....	380	Fire College.....	121
Government in New Jersey.....	159	Rapid Sand Filters.....	883	Health Bulletin.....	417
Government in the Far West.....	417	Granite Block Specifications.....	354, 580	Milk Regulations.....	293
Concrete Arch Roadway Bridge.....	771	Blocks, Wood Jointed.....	358	Pavements.....	447
Excavation and.....	292	Greenwood, Street Lighting by Porch Lights in.....	52	New York's Asphalt Pavements.....	448
Methods.....	777	Water and Light Plant.....	670	Garbage, Value of.....	611
Methods in Rochester.....	809, 890	Grit Chamber Sand, Washing.....	486	Health Condition.....	886
Pavement in Bozeman.....	10	Harrisburg, Hypochlorite at.....	166	Health Record.....	445
Retempering.....	813	Water Works Notes.....	294	Niagara Falls, Hypochlorite at.....	54
Roads in Michigan.....	714	Health Boards, Association of Georgia.....	619	Nuisances, Sewage Purification Plants as Numbering by Latitude and Longitude, House.....	53, 668
Water Tower in Holland.....	159	Boards, Functions of.....	613	Odors from Sprinkling Filters.....	259, 290
Condemnation, Excess Assessments.....	920	Bulletin, New York.....	417	Officers, Liability of Municipal.....	51
Consumer, A Town as a Delinquent.....	547	Condition, New York's.....	886	Ohio State Road Laboratory.....	700
Consumption, Waste in Public Water.....	579	Laws, Ontario.....	921	Oil Macadam in California.....	357
Contractors, Cost Keeping for.....	743	Record, New York's.....	445	Oiling Roads, Cost of.....	813
Control and Cleaning of Streets.....	811	Records, Board of.....	619	Shell Roads.....	355
Co-operation in Philadelphia, Civic.....	321	Highway Improvement, Association for.....	711	Oklahoma City's Fire System.....	543
Corrosion by Hypochlorite Solutions.....	124	Highways, Specifications for Michigan.....	698	Overcrowding Street Cars.....	156
Cost Keeping for Contractors.....	743	Hoboken, Budget Exhibit in.....	84	Park Entrance and Public Comfort Station.....	513
of Pavements.....	379	Houston, Refuse Crematories at.....	842	Maintenance, Cost of.....	778
of Pipe Sewers, Yearly Variation in.....	446	Hypochlorite at Harrisburg.....	166	Roads.....	713
Creek Improvement, Squaw.....	573	at Niagara Falls.....	54	Parks and Boulevards, St. Louis.....	79
		Plant for Applying.....	166		
		Solutions, Corrosion by.....	124		

# MUNICIPAL JOURNAL

Pasadena, Garbage Disposal at.....	126	Sanitation at Lebanon.....	26	Water—Liability for Impure.....	259
Patents, Sewage Disposal.....	53	Co-operative.....	50	Mains, Pollution Through.....	669
Sewage Precipitation.....	323	Sedimentation Tank Experiments.....	48	Mains, Steel Pipes for.....	579
The Imhoff.....	324	Sewage Clarification.....	548	Notes, Madison, Wis.....	666
Pavement Construction, Asphalt.....	744	Disposal at Shore Resorts.....	290	Plague, The Red.....	849
Crowns in Washington.....	667	Disposal Experiments.....	516	Purification at Wilmington.....	541
in Bozeman, Concrete.....	10	Disposal Experiments, Philadelphia.....	347	Rate Making.....	321
Specifications, Committees on.....	352	Disposal in California.....	445	Rate Problem, The.....	293
Pavements, Cost of.....	379	Disposal Patents.....	9	Rates.....	227, 841
in Demand, Best.....	379	Disposal Problems.....	9	Rates at Daytona.....	288
in Grand Forks.....	380	Disposal, Sewerage and.....	7	Rates in Duluth.....	416
New York.....	447	Disposal Works at Bordentown.....	441	Rates in East Orange.....	287
New York's Asphalt.....	448	Disposal Works, Chatham-Madison.....	317	Rates in Many Cities.....	226
of Atlanta, Wood Block.....	355	Plants, Operating.....	119	Rates in New Orleans.....	286
Paving and Lighting a Small City.....	195	Polluted Sea Water.....	887	Rates, Making.....	287
Blocks, Iron-Concrete.....	378	Precipitation Patents.....	323	Saves Lives in Cincinnati, Pure.....	323
in 1910 and 1911.....	362	Pumping in New Orleans.....	256	Sedimentation in Poughkeepsie.....	323
in Aberdeen, Wood Block.....	357	Purification at Reading.....	778	Shortage, Prepare Now for.....	669
in American Cities, Wood.....	381	Purification, Essentials of.....	633	Situation in Erie.....	323
in Kansas City, Concrete.....	776	Purification, German System of.....	410	Supply, Catskill.....	835
in Pensacola, Wood Block.....	377	Purification Plants as Nuisances.....	53	Supply, Liability for.....	165
Report, Chicago Street.....	665	Sewer and Sewage Pumping Station, In- tercepting.....	605	Supply, Purification of.....	11
Specifications.....	519	Cleaning in New Orleans.....	257	Survey, Illinois.....	855
Specifications, Brick.....	544	Construction in St. Louis.....	614	Tower Abandoned, St. Louis.....	486
Specifications, Standard.....	517	Gas, Deodorizing.....	613	Tower in Holland, Concrete.....	159
Streets and Roads.....	20	Outlet, Underground Storm.....	634	Waste Survey in Memphis.....	847
Toronto, Street.....	480	Sewerage and Sewage Disposal.....	7	Works, Columbia.....	191
Pay, New York City Slow.....	548	Commission, Exhibit by.....	917	Works, Construction, Life of.....	155
Peekskill, Water Filtration at.....	473	Construction, For Better.....	634	Works, Dayton.....	256
Pensacola, Wood Block Paving in.....	377	Statistics, Additional.....	610	Works, Details, Texas.....	478
Periodical, Value of a.....	87	Statistics of American Cities.....	620	Works, Efficiency, Cincinnati.....	119
Philadelphia, Civic Co-operation.....	321	Sewers, Yearly Variation in Cost of Pipe.....	447	Works, Filters, Louisville.....	775
Municipal Telephones.....	519	Sidewalk Fallacies.....	775	Works, Intake Troubles, Toronto.....	663
Sewage Disposal Experiments.....	483	Sidewalks, Repairing Curbs and.....	290	Works, Notes.....	856
Pipe, Repairing a Steel.....	579	Signs, Denver Street.....	415	Works, Notes, Harrisburg.....	294
Pipes for Water Mains, Steel.....	743	Sludge Treatment, Grossman System of.....	840	Works, Notes, Toledo.....	257
Planning Conference, The City.....	485	Smoke Abatement in Boston.....	850	Works, Questions.....	773
Control of Street.....	739	Snow, Magnesium Chlorate for Removing.....	122	Works, Rate Making.....	857
Exhibit and Conference, City.....	483	Somerville Playgrounds.....	917	Works, Report, Minneapolis.....	85
in American Cities, City.....	124	Sounding Bar for Locating Rock.....	814	Works, Topics, Discussion of.....	416
in Practice, City.....	813	South Carolina Roads.....	711	Wells, Determining Yield of.....	576
Plans Commission for Salem, City.....	917	South Norwalk Municipal Electric Plant.....	411	West Virginia, Road Improvements in.....	701
Playgrounds, Somerville.....	778	Specifications, Brick Paving.....	352	Wichita, Cheaper Street Lighting in.....	664
Police Signals and Fire Boxes.....	515	Committees on Pavement.....	349	Width of Wholesale Streets.....	812
Pollution, Acid Mine Drainage and.....	260	Development of Wood Block.....	707	Wilmington, Water Purification at.....	541
of Water in Public Baths.....	669	for Macadam Roads.....	698	Winnipeg, Manholes in.....	418
Through Water Mains.....	26	for Michigan Highways.....	354, 580	Wood Block Pavements of Atlanta.....	355
Poplar Trees to Go.....	55	Granite Block.....	702	Block Paving in Aberdeen.....	357
Positions, Retaining Municipal.....	323	Oil Macadam.....	519	Block Paving in Pensacola.....	379
Poughkeepsie, Water Sedimentation in.....	121	Paving.....	87	Block Specifications, Development of.....	349
Poughkeepsie's Main Street, Improving.....	256	Standard.....	258	Blocks in England, Creosoting.....	122
Pumping in New Orleans, Sewage.....	605	Sprinkler Filter, Covered.....	1	Blocks, Oil for Preserving.....	54
Station, Intercepting Sewer and Sew- age.....	193	Sprinkling Filter Plant for Suburban Community.....	285	Blocks, Untreated.....	378
Purification, Electrolytic.....	633	Stable and Wagon House, Municipal.....	859	Paving in American Cities.....	381
Essentials of Sewage.....	11	Standards of Purity.....	712	Preserving with Asphalt Oils.....	556
of Water Supply.....	858	State Aid to Roads in the Several States and Territories.....	610	Works Notes of Reading, Pa., Public.....	556
Purity, Standards of.....	321	Statistics, Additional Sewerage.....	620		
Rate Making, Water.....	857	of American Cities, Sewerage.....	322		
Making, Water Works.....	842	Sterilizing, Amount of Chlorine for.....	858		
Rates, Fire Hydrant.....	889	By Ultra-Violet Rays.....	119		
Fire Hydrant—A Correction.....	416	Straw Road, A Florida.....	813		
in Duluth, Water.....	226	Street Cleaning Accounting.....	15		
in Many Cities, Water.....	227, 841	Cleaning and Refuse Disposal.....	543		
Water.....	777	Cleaning Machine.....	919		
Reading, Asphalt Repairing in.....	856	Department Devices.....	920		
Pa., Public Works Notes of.....	778	Grades, Establishing.....	17		
Sewage Purification at.....	774	Illumination.....	47		
Records, Efficiency.....	123	Lighting, Intense.....	480		
Unreliability of City.....	197	Names on Curbs.....	481		
Value of City.....	849	Railway Tracks.....	803		
Red Water Plague, The.....	290	Standards and "Elastic" Streets.....	412		
Reference Bureau, Wisconsin Municipal.....	84	Traffic Data.....	805		
Refuse Crematory at Houston.....	117	Widths and Sub-Divisions.....	701		
Destructor, Montgomery.....	918	Work in Madison, Wis.....	20		
Disposal, Street Cleaning and.....	446	Streets and Roads, Paving.....	811		
Fertilizer from City.....	701	Control and Cleaning of.....	479		
Incinerator, Milwaukee.....	323	Dedication of Platted.....	811		
Reports, Promptness in Municipal.....	25	Dust Prevention and City.....	745		
Review and Outlook, General.....	123	Narrowing Minor Residence.....	813		
River, Purifying the Ohio.....	119	Width of Wholesale.....	151		
Road, A Florida Straw.....	706	Subsurface Structures, Locating.....	577		
Appliances, Home-Made.....	711	Swimming Pools, Disinfecting.....	485		
Building in Delaware.....	918	Tank Experiments, Sedimentation.....	580		
Building in Kansas, Rapid.....	711	Tarring Roads and Eye Troubles.....	157		
Commission, Alaska.....	705	Telephones, Philadelphia Municipal.....	257		
Experiments, Modern.....	701	Toledo Water Works Notes.....	477		
Improvement in Nova Scotia.....	700	Toronto, Municipal Bidding in.....	480		
Improvements in West Virginia.....	703	Street Paving.....	663		
Laboratory, Ohio State.....	21	Waterworks Intake Troubles.....	481		
Methods in Great Britain.....	691	Tracks, Street Railway.....	54		
Tests, Ohio Experimental.....	699	Traffic Census, Taking.....	412		
The Bronx Experimental.....	359	Data, Street.....	923		
Work in Massachusetts.....	580	on Fleet Street, London.....	165		
Work, Terms Used in Bituminous.....	813	Transportation Problem, The City.....	26		
Roads and Eye Troubles, Tarring.....	714	Trees to Go, Poplar.....	294		
Cost of Oiling.....	712	Typhoid Epidemic, Study of.....	322		
in Michigan, Concrete.....	700	Rates, Effect of Filters on.....	86		
in the Several States and Territories.....	713	Washington Filtration and.....	558		
State Aid to.....	713	Ultra-Violet Rays, Sterilizing by.....	258		
Missouri's Diversified.....	20	Ventilating Filter, Chimney for.....	486		
Park.....	711	Voting, Preferential System of.....	518		
Paving Streets and.....	707	Wallford Municipal Electric Plant.....	86		
South Carolina.....	156	Washington Filtration and Typhoid.....	160		
Specifications for Macadam.....	231	Filtration Plant, Operation of.....	291		
Train in Pennsylvania, Good.....	809	Waste Utilization Plant, Berlin.....	670		
Roadways, Bituminous Concrete.....	814	Water and Light Plant, Greenwood.....	519		
Rochester, Concrete Methods in.....	518	Conduits, Material for.....	579		
Rock, Sounding Bar for Locating.....	577	Consumption, Waste in Public.....	193		
Rubbish, Fuel Briquets from Street.....	79	Double Filtration of.....	473		
Rust in Service Pipes.....	486	Filtration at Peekskill.....	260		
		in Public Baths, Pollution of.....	288		
		Injurious Effect of Salt in.....			
St. Louis Parks and Boulevards.....					
Sewer Construction in.....					
Water Tower Abandoned.....					
Salt in Water, Injurious Effect of.....					
Sand, Washing Grit Chamber.....					

## News of the Municipalities

### ROADS AND PAVEMENTS

Albany, N. Y.....	88, 199, 232
Altoona, Pa.....	638
Annapolis, Md.....	27
Atlanta, Ga.....	56, 384
Atlantic City, N. J.....	715
Augusta, Ga.....	88
Baltimore, Md.....	88, 199, 384
Beloit, Wis.....	232
Berkeley, Cal.....	924
Binghamton, N. Y.....	126, 199, 779
Birmingham, Ala.....	891
Bloomfield, N. J.....	521
Boston, Mass.....	28, 126, 779, 780
Bowling Green, Ky.....	638
Bridgeport, Conn.....	747
Brooklyn, N. Y.....	88
Brownsville, Tex.....	449
Buffalo, N. Y.....	56
Burlington, Ia.....	521
Camden, Pa.....	385
Centerville, Md.....	487
Charleston, S. C.....	747
Chattanooga, Tenn.....	168, 325
Chicago, Ill.....	487, 780
Cincinnati, O.....	56, 126, 200, 385, 582, 671
Clayton, Mo.....	56
Cleveland, O.....	27, 385
Clifty, Tenn.....	232
Corpus Christi, Tex.....	296
Council Grove, Kan.....	747
Crowley, La.....	167
Dallas, Tex.....	88, 385
Dayton, O.....	860
Denver, Col.....	167
Des Moines, Ia.....	127, 747
Duluth, Minn.....	168, 384
East Orange, N. J.....	56
El Paso, Tex.....	126, 385
Erie, Pa.....	168, 232
Everett, Wash.....	167
Federalburg, Md.....	167
Fort Dodge, Ia.....	27
Fort Smith, Ark.....	715
Fort Worth, Tex.....	550
Freeport, Ill.....	126
Galen, N. Y.....	326
Galveston, Tex.....	716
Grand Rapids, Mich.....	815
Hagerstown, Md.....	550
Hamilton, Mont.....	638
Harrisburg, Pa.....	262, 296



# MUNICIPAL JOURNAL

Hartford, Ala.	582
Hartford, Conn.	168
Hastings, Pa.	611
Houston, Tex.	167, 325
Huntington, Ind.	325
Indianapolis, Ind.	57, 89, 126, 418, 715
Kansas City, Mo.	780
Kingston, N. Y.	638
Knoxville, Tenn.	860
Lansing, Mich.	167
Leavenworth, Kan.	199, 418, 487
Lexington, Ky.	891, 924
Long Branch, N. J.	860
Los Angeles, Cal.	200, 385, 582, 747
Louisville, Ky.	199, 200, 418, 487
McKeesport, Pa.	715
Macon, Ga.	88
Marion, Ind.	779
Masillon, O.	88
Milford, O.	167
Milwaukee, Wis.	296, 418, 671, 779, 860
Minneapolis, Minn.	56, 716
Montclair, N. J.	89
Montgomery, Ala.	232
Mount Vernon, N. Y.	262
Newark, N. J.	127, 487, 891
Newark, N. Y.	167
New Britain, Conn.	550, 779
Newburg, N. Y.	262
New London, Conn.	384
New Orleans, La.	167, 325, 521
New Rochelle, N. Y.	262
New York, N. Y.	28, 56, 89, 232
Niagara Falls, Ont.	582
Norwich, Conn.	582
Oakland, Cal.	27
Oklahoma City, Okla.	747, 815
Olympia, Wash.	487
Paris, France	296
Paterson, N. J.	232
Pawtucket, R. I.	779
Perth Amboy, N. J.	296
Philadelphia, Pa.	167, 200, 385, 715, 779
Phoenix, Ariz.	638
Pittsburg, Pa.	89, 449, 487
Plainfield, N. J.	56
Portland, Ore.	57, 418, 449, 582
Port Townsend, Wash.	325
Providence, R. I.	550, 715
Puyallup, Wash.	638
Rensselaer, N. Y.	780
Riverside, Cal.	326
Rochester, N. Y.	168, 200, 232, 815
St. Augustine, Fla.	167, 296, 384, 449
St. Joseph, Mo.	126
St. Paul, Minn.	418, 550
Sacramento, Cal.	168, 199
Saginaw, Mich.	233
Salem, Mass.	27
Salt Lake, Utah	671
San Antonio, Tex.	582
San Francisco, Cal.	924
San Jose, Cal.	126
Santa Monica, Cal.	385
Schenectady, N. Y.	56
Scranton, Pa.	487
South Bend, Ind.	57, 326, 638
South Burlington, Vt.	550
Spokane, Wash.	449, 582, 815, 860, 891
Springfield, Ill.	325
Springfield, O.	57, 296, 521
Superior, Wis.	747
Syracuse, N. Y.	57, 262, 297, 716
Tacoma, Wash.	297
Tallahassee, Fla.	487
Tampa, Fla.	891
Taunton, Mass.	747
Texarkana, Ark.	715
Toledo, O.	582
Topeka, Kan.	57, 127
Trenton, N. J.	233, 326, 638
Trinidad, Col.	924
Walla Walla, Wash.	325, 384
Washington, D. C.	126, 550
Washington, Pa.	232, 262
Waterbury, Conn.	715, 779, 860
Waterloo, Ia.	168
Waukesha, Wis.	418
Wichita, Kan.	232
Wilkes-Barre, Pa.	296
Williamsport, Md.	891
Wilmington, Del.	296, 384, 449
Yonkers, N. Y.	262, 860
York, Pa.	27, 126, 487
Youngtown, O.	262, 384, 780

## SEWERAGE AND SANITATION

Akron, O.	748
Albany, N. Y.	233, 297, 488
Atlanta, Ga.	28, 89
Attalla, Ala.	583
Austin, Tex.	28, 419
Baltimore, Md.	57, 89, 488, 671
Bay City, Mich.	234, 861
Bay City, Tex.	716
Binghamton, N. Y.	419, 450, 816
Birmingham, Ala.	89
Boise, Ida.	57

Boston, Mass.	127, 168, 419
Bridgeport, Conn.	451
Bryan, Tex.	450
Buffalo, N. Y.	451, 639
Burlington, Vt.	450
Chattanooga, Tenn.	925
Chicago, Ill.	127, 748
Chico, Cal.	450
Clearwater, Fla.	488
Cleveland, O.	57
Collingswood, N. J.	168
Columbus, O.	816
Concord, N. H.	234, 200
Dallas, Tex.	233, 450, 672, 891, 925
Decatur, Ala.	419
Defiance, O.	780
Denton, Tex.	386
Duluth, Minn.	90, 583
East Orange, N. J.	780
Easton, Md.	925
Elizabeth, N. J.	297
Erie, Pa.	90, 127, 200, 450
Fitchburg, Mass.	263
Fort Scott, Kan.	386, 815
Gaffney, S. C.	551
Hackensack, N. J.	450
Haddonfield, N. J.	200
Hasbrouck Heights, N. J.	???
Henderson, Ky.	128
Houston, Tex.	90
Huntington, Ind.	234
Hutchinson, Kan.	816
Indianapolis, Ind.	90, 716, 780, 815
Jacksonville, Fla.	263, 419, 551
Kenmore, N. Y.	200
Lackawanna, N. Y.	551
Lockport, N. Y.	450
Long Beach, Cal.	386
Louisville, Ky.	90, 168, 233, 450
Lynn, Mass.	128, 386
McKeesport, Pa.	716
Macon, Ga.	639
Madison, Ind.	263
Manitowoc, Wis.	551
Marble Cliff, O.	672
Marysville, Cal.	488
Mason City, Ia.	891
Melrose, Minn.	551
Millville, N. J.	639
Milwaukee, Wis.	233
Minneapolis, Minn.	780
Montclair, N. J.	861
Mount Holly, N. J.	128
Mt. Jackson, Va.	57
Mount Pleasant, Utah	488
Newark, N. J.	28, 297, 419, 451
New Bedford, Mass.	233
New Britain, Conn.	639
New Haven, Conn.	891
New York, N. Y.	263, 297, 488
Ocean City, N. J.	419
Oil City, La.	639, 716
Oklahoma City, Okla.	488
Pasadena, Cal.	168, 551
Paterson, N. J.	168
Pelham, N. Y.	127
Penn Yan, N. Y.	263
Pensacola, Fla.	551
Perth Amboy, N. J.	419
Philadelphia, Pa.	57, 521, 639
Plainfield, N. J.	583, 748
Portland, Ind.	450
Portland, Ore.	671, 815
Portsmouth, Va.	450
Providence, R. I.	521
Racine, Wis.	861
Richmond, Va.	816
Rochester, N. Y.	716
St. Louis, Mo.	263
St. Paul, Minn.	128, 234, 488
Sacramento, Cal.	816
Salt Lake City, Utah	891
Schenectady, N. Y.	168
Seattle, Wash.	639
South Bend, Ind.	488, 551, 748, 925
Spokane, Wash.	419, 816, 891
Syracuse, N. Y.	28, 200, 488, 639, 815
Tampa, Fla.	450
Toledo, O.	386, 583, 748, 816
Tonawanda, N. Y.	201
Topeka, Kan.	450
Trenton, N. J.	450
Vincennes, Ind.	201
Walla Walla, Wash.	90
Washington, D. C.	263
Washington, Pa.	861
White Plains, N. Y.	521
Wilkes-Barre, Pa.	234
Wilmington, Del.	891
Woonsocket, R. I.	583
Yonkers, N. Y.	451
Youngstown, O.	925

## WATER SUPPLY

Akron, O.	91, 817
Altoona, Pa.	90, 522
Atlanta, Ga.	748
Austin, Tex.	28
Baltimore, Md.	169, 816
Bangor, Me.	490, 583
Barberton, O.	128
Bay City, Mich.	201
Bellaire, O.	28
Bellefontaine, O.	128
Bethlehem, Pa.	640
Binghamton, N. Y.	128
Bluefield, W. Va.	420
Bridgeport, Conn.	59
Bristol, Conn.	552
Bristol, Va.	298
Brookline, Mass.	28
Buffalo, N. Y.	552, 892
Butler, Pa.	420
Canastota, N. Y.	202
Carlsbad, N. M.	816
Chicago, Ill.	91
Cincinnati, O.	29, 386, 420
Cleveland, O.	58, 169
Cohoes, N. Y.	551, 640, 892
Columbia, S. C.	717, 926
Columbus, O.	640
Colusa, Cal.	28
Connersville, Ind.	58
Council Bluffs, Ia.	640
Covington, Ky.	522
Cranford, N. J.	386
Crookston, Minn.	91
Cuero, Tex.	234
Davenport, Ia.	522
Dayton, O.	717, 781, 861
Daytona, Fla.	420
Defiance, O.	490
Delaware, O.	169
Denison, Tex.	201
Des Moines, Ia.	170, 672
Devils Lake, N. D.	297
Dodge City, Kan.	234
Duluth, Minn.	490
East Hartford, Conn.	672
Edinburg, Ind.	234
Elizabeth, N. J.	58, 584
Elkhart, Ind.	170
El Paso, Tex.	490
Erie, Pa.	263, 862
Escanaba, Mich.	91, 170, 297
Eugene, Ore.	59, 420
Evansville, Ind.	748
Farmville, Va.	128
Fitchburg, Mass.	28
Ft. Dodge, Ia.	298
Fort Worth, Tex.	129, 170, 584, 717, 892
Franklin, Pa.	490
Frederick, Md.	522
Freewater, Ore.	490
Gadsden, Ala.	128, 926
Gloucester City, N. J.	489
Gunnison, Utah	551
Helena, Mont.	170, 489, 584
Hibbing, Minn.	202
Huntsville, Ala.	861
Hutchinson, Kan.	717, 862
Hyde Park, Mass.	201
Jacksonville, Fla.	489
Kearney, Neb.	640
Kenosha, Wis.	892
Kingman, Kan.	234
Knoxville, Tenn.	717, 925
La Crosse, Wis.	584
Lansing, Mich.	672
Lawton, Okla.	583
Lebanon, Pa.	386
Lestershire, N. Y.	420
Lewiston, Mont.	489
Lima, O.	386, 551
Lockport, N. Y.	298, 420
Long Beach, Cal.	263, 386
Los Angeles, Cal.	169, 451, 672
Louisville, Ky.	169, 202, 421, 861
McAlester, Okla.	748
Mattoon, Ill.	298
Merrimac, Mass.	451
Milwaukee, Wis.	451, 892
Minneapolis, Minn.	58, 263, 717, 781
Mishawaka, Ind.	58
Moline, Ill.	584
Montgomery, Ala.	640, 717
Montpelier, Ind.	717
Moorhead, Minn.	91, 489, 583
Moorhead, N. D.	817
Muskegon, Mich.	522
Muskogee, Okla.	862
Natchez, Miss.	90
Naugatuck, Conn.	421
Newark, N. J.	129, 169, 781
New Britain, Conn.	781
New Castle, Ind.	420
New York, N. Y.	201, 234
Niagara Falls, N. Y.	169, 298, 420, 552, 640, 781
Niles, O.	170
Norfolk, Va.	202

# MUNICIPAL JOURNAL

North Tonawanda, N. Y.	781	Lansing, Mich.	387, 584, 926	Indianapolis, Ind.	92, 131
Northampton, Mass.	552	Leavenworth, Kan.	264	Ivry, France	203
Norwich, Conn.	522	Lodi, Cal.	452	Jacksonville, Fla.	553
Oakland, Cal.	489, 817	Los Angeles, Cal.	235, 421, 522, 749, 892	Jamestown, N. Y.	172
Ogden, Utah	430, 583, 640, 862	Madison, Wis.	892	Janesville, Wis.	388, 452
Ogdensburg, N. Y.	522	Marion, Ind.	29, 30, 91	Jersey City, N. J.	387, 641
Oklahoma City, Okla.	263, 672	Marked Tree, Ark.	171	Lansing, Mich.	523, 585
Onaga, Kan.	298	Minneapolis, Minn.	91, 299	Lawrence, Mass.	893
Oradell, N. J.	816	Mishawaka, Ind.	452	Lebanon, Pa.	491
Orangeburg, S. C.	551	Morgantown, W. Va.	129	Lestershire, N. Y.	92
Ottawa, Ont.	816	Nelsonville, O.	171	Long Beach, Cal.	927
Pasco, Wash.	925	New Britain, Conn.	718	Long Branch, N. J.	30, 553
Paterson, N. J.	748	New Castle, Del.	862	Los Angeles, Cal.	131, 782
Petersburg, Va.	58	New York, N. Y.	235	Louisville, Ky.	387
Philadelphia, Pa.	58, 129, 862	Niagara Falls, N. Y.	387	Lowellville, O.	927
Phoenix, Ariz.	584	Niagara Falls, Ont.	490	Lynn, Mass.	235
Pittsburg, Pa.	170, 925	North Yakima, Wash.	893	Macon, Ga.	422, 718, 927
Plainfield, N. J.	129, 170	Norwood, Mass.	490	Manchester, N. H.	674
Portchester, N. Y.	29	Olyphant, Pa.	421	Mason, Mich.	131, 491
Portland, Me.	201, 925	Orange, N. J.	299	Middletown, Conn.	585
Portland, Ore.	781	Palo Alto, Cal.	782	Milwaukee, Wis.	60, 172, 585
Portsmouth, Va.	781	Pasadena, Cal.	202, 264, 421, 584, 641, 749	Minneapolis, Minn.	60, 93, 387
Poughkeepsie, N. Y.	90	Passaic, N. J.	129	Mishawaka, Mich.	818
Providence, R. I.	234, 522	Pembina, N. Y.	130	Nashville, Tenn.	204
Racine, Wis.	201, 640	Petersburg, Va.	235	Navarre, O.	60
Rensselaer, N. Y.	925	Philadelphia, Pa.	30, 299	Newark, N. J.	31, 204
Rochester, N. Y.	926	Plainville, Conn.	171	New York, N. Y.	30, 31, 60, 61, 93, 130, 265, 301, 422, 553, 782
Roseau, Minn.	29	Pocatello, Ida.	264	Oakland, Cal.	93, 641, 749
Rutland, Vt.	29	Porterville, Cal.	893	Old Fort, O.	31
St. Paul, Minn.	59, 297, 925	Portland, Ind.	893	Passaic, N. J.	585
Saginaw, Mich.	420	Portland, Me.	522	Paterson, N. J.	388, 422, 782, 863
Salem, Ore.	781	Racine, Wis.	202	Perth Amboy, N. J.	203
Salt Lake City, Utah	421	Richmond, Ind.	202, 641	Philadelphia, Pa.	130, 265
San Antonio, Tex.	420	Richmond, Va.	641	Pittsburg, Pa.	93
San Francisco, Cal.	234	Rochester, N. H.	299	Placerville, Cal.	641
Schenectady, N. Y.	421	St. Maries, Ida.	59	Port Tampa, Fla.	388
Schuylkill Haven, Pa.	169	St. Paul, Minn.	60	Portland, Ore.	300, 673
Seneca Falls, N. Y.	169	St. Thomas, Ont.	490	Portsmouth, Va.	131, 388, 674
Sheboygan, Wis.	59	Saginaw, Mich.	552	Racine, Wis.	172, 585
Sherman, Tex.	489	Santa Ana, Cal.	490	Richmond, Ind.	641
Shreveport, La.	169	Santiago, Chile	91	Rochester, N. Y.	61, 673, 718
South Bend, Ind.	202, 717	Schenectady, N. Y.	171	Rome, N. Y.	93
South Omaha, Neb.	129	Scranton, Pa.	171	St. Petersburg, Russia	265
Spokane, Wash.	29, 640, 672, 817, 926	Sharon, Pa.	552	San Francisco, Cal.	927
Springfield, O.	129	Sharpsburg, Pa.	452	Schenectady, N. Y.	61, 863
Stamford, Tex.	298	Shreveport, La.	718	Selma, Ala.	93
Superior, Wis.	451	Spokane, Wash.	91, 522	South Bristol, Me.	204
Tacoma, Wash.	552, 672, 926	Springfield, Mass.	130	Spokane, Wash.	172, 641
Talladega, Ala.	862	Strawberry Point, Ia.	30	Springfield, Mass.	130, 204, 718
Temple, Tex.	90, 202	Tacoma, Wash.	30, 171, 673, 782	Stratford, Conn.	673
Toledo, O.	386, 584, 862	Toledo, O.	91, 452, 673	Superior, Wis.	749
Tonawanda, N. Y.	489	Trenton, N. J.	235, 452	Syracuse, N. Y.	203, 818
Trenton, N. J.	298	Trenton, Tenn.	171	Toledo, O.	452, 718
Tyrone, Pa.	386	Walla Walla, Wash.	299	Topeka, Kan.	130, 523
Washington, D. C.	861	Washington, D. C.	299, 581, 817	Tower, Minn.	131
Waterbury, Conn.	29, 892	Waterbury, Conn.	235	Troy, N. Y.	236
Waterloo, Ia.	640	Weaverville, Cal.	299	Tuckahoe, N. Y.	300
Watervliet, N. Y.	58	Wilmington, Del.	817	Two Harbors, Minn.	388
Woodward, Okla.	29	Woonsocket, R. I.	892	Walla Walla, Wash.	388
Yonkers, N. Y.	263, 298	Albany, N. Y.	674	Washington, D. C.	203, 782
Youngstown, O.	451	Allentown, Pa.	927	Welch, W. Va.	131
STREET LIGHTING AND POWER				Westfield, Mass.	172
Alliance, Neb.	452	Alliance, O.	92	Wheeling, W. Va.	93, 131
Altoua, Pa.	673	Anderson, S. C.	523	Wilkes-Barre, Pa.	204, 718
Atlanta, Ga.	59	Ardmore, Okla.	641	Wilmington, Del.	171, 236, 863
Aurora, Minn.	91	Ashley, Pa.	264	Yonkers, N. Y.	236, 491
Baltimore, Md.	29, 130, 170, 584, 862, 926	Atlanta, Ga.	235	POLICE	
Beloit, Kan.	490	Atlantic Highlands, N. J.	818	Alexandria, Ind.	585
Birmingham, Ala.	749	Augusta, Ga.	60, 300	Allentown, Pa.	300
Bridgeton, N. J.	30	Baltimore, Md.	300	Anderson, Ind.	293
Brooklyn, N. Y.	29	Baton Rouge, La.	60	Baltimore, Md.	300
Burlington, N. J.	264	Birmingham, Ala.	718, 863	Bay City, Mich.	641
Burlington, Vt.	263	Bloomington, Ind.	523	Berkeley, Cal.	60
Centerville, Ia.	171	Boston, Mass.	131, 300	Birmingham, Ala.	30
Chase City, Va.	749	Branchville, N. J.	387	Buffalo, N. Y.	553, 893
Chicago, Ill.	522, 749	Bridgeport, Conn.	235, 641	Carbondale, Pa.	491
Chisholm, Minn.	817	Brooklyn, N. Y.	264	Centralia, Wash.	203
Cincinnati, O.	29, 202, 522	Buffalo, N. Y.	585	Charleston, S. C.	641
Clay Center, Kan.	387	Butte, Mont.	718	Chattanooga, Tenn.	60
Cleveland, O.	60, 452, 584	Chatham, Va.	749	Chicago, Ill.	171
Columbus, O.	170, 387, 552, 862, 893	Chicago, Ill.	30, 300, 749	Chickasha, Okla.	300
Council Bluffs, Ia.	817	Chico, Cal.	300	Cincinnati, O.	422, 491, 782
Crowley, La.	817	Cincinnati, O.	491	Columbus, O.	30
Cumberland, Md.	552	Coboes, N. Y.	171	Dayton, O.	523
Dallas, Tex.	299	Columbus, O.	171	Detroit, Mich.	782
Dayton, O.	299	Dallas, Tex.	92	Fort Wayne, Ind.	491
Defiance, O.	59	Dallastown, Pa.	863	Galveston, Tex.	92
Des Moines, Ia.	59	Duluth, Minn.	673	Glen Ridge, N. J.	203
Elsmere, Del.	817	East Bridgeport, Conn.	131	Houston, Tex.	523, 718
Erie, Pa.	926	Elizabeth, N. J.	30, 749	Huntington, W. Va.	749
Eugene, Ore.	235, 421	Elkhart, Ind.	60, 172	Hutchinson, Kan.	301, 673
Fort Wayne, Ind.	491	El Paso, Tex.	131	Iola, Kan.	203, 264
Frederick, Md.	170	Fort Worth, Tex.	31, 203, 300	Jersey City, N. J.	452
Galesburg, Ill.	130	Grand Rapids, Mich.	31, 422	Lexington, Ky.	422
Hamilton, O.	893	Granville, N. Y.	60	London, England	93
Hastings, Neb.	673	Great Falls, Mont.	585	Los Angeles, Cal.	172, 203
Hingham, Mass.	387	Green Bay, Wis.	92	Louisville, Ky.	93, 674
Hoboken, N. J.	421, 926	Halifax, Can.	264	Lynn, Mass.	893
Ilion, N. Y.	421	Hamilton, O.	523		
Independence, Kan.	490	Hanford, Cal.	553		
Indianapolis, Ind.	552	Harrisburg, Pa.	265		
Iola, Kan.	60	Hartford, Conn.	553		
Jackson, Tenn.	718	Haverhill, Mass.	641		
Jacksonville, Fla.	552	Huntington, Ind.	92		



# MUNICIPAL JOURNAL

Milwaukee, Wis.	927
Mishawaka, Ind.	171
Moline, Ill.	131
New York, N. Y.	30, 93, 131, 172, 265, 927
Paterson, N. J.	265
Poughkeepsie, N. Y.	673
Providence, R. I.	265, 388
Reading, Pa.	265
Rochester, N. Y.	387
Russellville, Ala.	203
Salt Lake City, Utah	422
Seattle, Wash.	553
Spokane, Wash.	204, 673
Springfield, Mass.	204
Superior, Wis.	422
Toledo, O.	452, 782
Wakefield, Vt.	553
Warsaw, Ind.	452
Woonsocket, R. I.	749

## GOVERNMENT AND FINANCE

Aberdeen, S. D.	453
Adrian, Mich.	94
Albany, N. Y.	236, 266
Allentown, Pa.	301
Appleton, Wis.	265
Atlanta, Ga.	894
Austin, Tex.	423
Baltimore, Md.	554, 863
Bayonne, N. J.	894
Belton, Tex.	31
Berkeley, Cal.	423
Bessemer, Ala.	491
Binghamton, N. Y.	554
Birmingham, Ala.	642, 783
Boston, Mass.	301, 388
Bronxville, N. Y.	554
Burlington, N. J.	94, 266
Burlington, Vt.	927
Carbondale, Ill.	94
Chattanooga, Tenn.	237
Chicago, Ill.	94, 453, 750
Chickasha, Okla.	31
Cincinnati, O.	237
Cleveland, O.	237
Columbia, S. C.	172
Columbus, O.	388
Concord, N. H.	31
Corning, N. Y.	173
Council Grove, Kan.	265
Decatur, Ill.	172
Denison, Tex.	31, 523
Denver, Col.	554
Des Moines, Ia.	894
Detroit, Mich.	61
Dixon, Ill.	172
Duluth, Minn.	491
Elgin, Ill.	172
Erie, Pa.	453
Eugene, Ore.	265, 554
Everett, Wash.	423
Faribault, Minn.	265, 585
Farmington, Me.	204
Fort Worth, Tex.	750
Freeport, Ill.	453, 642
Galesburg, Ill.	265
Grand Rapids, Mich.	236
Greensboro, S. C.	265
Guthrie, Okla.	204, 237
Hammond, Ind.	94
Hartington, Tex.	750
Harrisburg, Pa.	132, 453, 642, 750, 863
Hoboken, N. J.	423
Houston, Tex.	642
Huron, S. D.	423
Indianapolis, Ind.	61, 132, 423
Jackson, Mich.	265
Jacksonville, Ill.	237
Jamestown, N. Y.	31
Kalamazoo, Mich.	818
Kermit, W. Va.	94
Kewanee, Ill.	204
Kingsville, Tex.	863
Lansing, Mich.	173
Lebanon, Pa.	523
Lexington, Ky.	750
Lockport, N. Y.	674
Los Angeles, Cal.	31
Louisville, Ky.	31
Lynn, Mass.	173
Marshalltown, Ia.	585
Milton, Del.	132
Milwaukee, Wis.	236, 266, 453
Missoula, Mont.	863
Mobile, Ala.	863
Moline, Ill.	94
Monmouth, Ill.	204
Monroe, La.	173
Montclair, N. J.	94
Montgomery, Ala.	585
Muskogee, Okla.	94

Nashville, Tenn.	265
Newburg, N. Y.	523
New York, N. Y.	61, 62, 94, 172, 301, 585
Norfolk, Neb.	585
Norwich, Conn.	863
Oakland, Cal.	750, 783
Oklahoma City, Okla.	94, 236, 301, 453, 750, 783, 893
Orleans, Mass.	818
Ottawa, Ill.	172
Paola, Kan.	585
Parkersburg, W. Va.	585
Pasadena, Cal.	719
Pekin, Ill.	265
Peoria, Ill.	204
Philadelphia, Pa.	204
Pittsburg, Pa.	62
Pontiac, Mich.	237
Portland, Ore.	927
Providence, R. I.	236, 237
Quincy, Ill.	204
Racine, Wis.	423
Raleigh, N. C.	585
Rehoboth, Del.	132
Richmond, Va.	388
Rockford, Ill.	94
Rock Island, Ill.	94
St. Louis, Mo.	236, 265, 453, 750
St. Paul, Minn.	491, 554
Schenectady, N. Y.	719
Scranton, Pa.	928
Seattle, Wash.	173, 237
South Bend, Ind.	453
Spokane, Wash.	61, 133, 173, 237, 423, 453, 750, 783, 863, 954
Springfield, Ill.	61, 94
Springfield, Mass.	94
Staunton, Va.	928
Springfield, O.	853
Sterling, Ill.	204
Tacoma, Wash.	173, 750, 818, 894, 927
Tarrytown, N. Y.	523
Taylor, Tex.	585
Texarkana, Tex.	94
Toledo, O.	132
Topeka, Kan.	132, 204
Traverse City, Mich.	585
Trenton, N. J.	173, 928
Walla Walla, Wash.	928
Wilmington, Del.	491, 554
Wilmington, N. C.	453
Winnipeg, Man.	453
Winston-Salem, N. C.	585
Woonsocket, R. I.	642
Wyandotte, Mich.	453
York, Pa.	388
Youngstown, O.	132, 674
Akron, O.	928
Albany, N. Y.	287, 751
Altoona, Pa.	302, 783, 864
Atlanta, Ga.	389, 586, 674, 719
Atlantic City, N. J.	719
Baltimore, Md.	62, 133
Beaver Falls, Pa.	783
Beverly, Mass.	719
Bridgeport, Conn.	204, 389, 524, 586, 642
Buffalo, N. Y.	133
Butte, Mont.	864
Chester, Pa.	719
Chicago, Ill.	454
Cincinnati, O.	62, 389, 423
Cleveland, O.	586
Clinton, Ia.	492
Columbus, O.	389, 818
Corning, N. Y.	95
Dallas, Tex.	302
Dayton, O.	783
Duluth, Minn.	492, 751, 818, 894
Elizabeth, N. J.	524
Erie, Pa.	389, 894
Everett, Wash.	423
Ft. Wayne, Ind.	928
Fulton, N. Y.	554
Greenfield, Ind.	864
Hagerstown, Md.	554
Harrisburg, Pa.	642
Huntington, Ind.	389, 751
Indianapolis, Ind.	719, 818
Jacksonville, Fla.	205
Knoxville, Tenn.	642, 818
Lansing, Mich.	492
Leavenworth, Kan.	454
Lexington, Ky.	928
Lodi, Cal.	237
Long Branch, N. J.	928
Los Angeles, Cal.	32
Macon, Ga.	751
Manchester, N. H.	642
Manila, P. I.	174

Mason City, Ia.	389
Milwaukee, Wis.	32, 133, 586
Montclair, N. J.	719
Montgomery, Ala.	783

Newark, N. J.	554
New Britain, Conn.	818
Newburgh, N. Y.	674
New York, N. Y.	62, 266, 586, 783
Niagara Falls, N. Y.	492, 524
Norfolk, Va.	492

Paterson, N. J.	454
Peoria, Ill.	586
Pittsburg, Pa.	237
Portland, Ore.	133, 492
Portsmouth, Va.	389
Poughkeepsie, N. Y.	524
Puyallup, Wash.	454

Racine, Wis.	266, 751
Rochester, N. Y.	586
Rome, Ga.	302

St. Louis, Mo.	389
St. Paul, Minn.	32
Sacramento, Cal.	524
Salem, Mass.	423, 555
Salt Lake City, Utah	173
San Antonio, Tex.	94
Saratoga Springs, N. Y.	719
Schenectady, N. Y.	204, 524
South Bend, Ind.	302
Spokane, Wash.	524, 554
Syracuse, N. Y.	173, 266, 554

Tampa, Fla.	586
Texarkana, Tex.	492, 586
Toledo, O.	524, 554, 818, 894, 928
Trenton, N. J.	554, 674, 928

Utica, N. Y.	586
--------------	-----

Washington, D. C.	133, 719
Waterbury, Conn.	524, 783
Watervliet, N. Y.	492
Wenatchee, Wash.	95
West Orange, N. J.	554
Wilkes-Barre, Pa.	423, 554
Williamsport, Pa.	864
Wilmington, Del.	642
Winnipeg, Man.	389
Woonsocket, R. I.	554

## RAPID TRANSIT

Boston, Mass.	424, 784, 929
Bradford, England	424
Brownsville, Tex.	643
Buenos Ayres, Argentine	174
Burlington, N. C.	784

Caldwell, Ida.	675
Carlisle, Pa.	675
Cedar Rapids, Ia.	205
Charlotte, N. C.	174, 819
Chattanooga, Tenn.	720, 929
Chester, Mass.	266
Chester, Pa.	55, 587
Chesterton, Ind.	555
Chicago, Ill.	238, 555, 751, 784
Cleveland, O.	62, 819
Columbus, O.	390

Dallas, Tex.	424
Denison, Tex.	894
Des Moines, Ia.	174, 266
Detroit, Mich.	174, 864
Dover, Del.	454
Elizabeth, N. J.	675
Emporia, Kan.	587

Fort Worth, Tex.	32, 587
------------------	---------

Gary, Ind.	751
------------	-----

Hagerstown, Md.	133
Harrisburg, Pa.	302, 424
Houston, Tex.	587
Indianapolis, Ind.	95, 675, 784

Jacksonville, Fla.	894
Janesville, Wis.	587
Jersey City, N. J.	784, 819

Los Angeles, Cal.	205
Louisville, Ky.	492, 525

Manchester, England	134
Michigan City, Ind.	455
Milwaukee, Wis.	205
Moss Point, Miss.	302
Mount Vernon, N. Y.	302

Newark, N. J.	134
New Bedford, Mass.	454
Newport News, Va.	587
New York, N. Y.	32, 62, 95, 134, 174, 205, 266
North Yakima, Wash.	32

Pasadena, Cal.	238
Petersburg, Va.	492
Philadelphia, Pa.	819
Pittsburg, Pa.	555
Portland, Ore.	175
Providence, R. I.	751
Quincy, Ill.	643

# MUNICIPAL JOURNAL

St. Paul, Minn.	95, 525
Sacramento, Cal.	205, 492
Salt Lake City, Utah	587, 784, 864
San Antonio, Tex.	587
San Francisco, Cal.	555, 643, 864
San Mateo, Cal.	894
Santa Maria, Tex.	751
Santa Monica, Cal.	492
Scranton, Pa.	587
Seattle, Wash.	454, 525
Shreveport, La.	720
South Bend, Ind.	133, 424, 525
Spokane, Wash.	587, 819
Syracuse, N. Y.	587, 819
Texarkana, Ark.	455
Toledo, O.	205
Topeka, Kan.	555, 864
Toronto, Ont.	302
Trenton, N. J.	95, 390

Utica, N. Y.	492
Vincennes, Ind.	751
Washington, D. C.	454, 525
Wilmington, Del.	492

## MISCELLANEOUS

Akron, O.	303
Albany, N. Y.	865
Ardmore, Okla.	95
Asheville, N. C.	753
Attleboro, Mass.	425
Baltimore, Md.	238
Bangor, Me.	675
Beaumont, Tex.	175
Bellefontaine, O.	303
Billings, Mont.	493
Birmingham, Ala.	238, 753, 785
Boone, Ia.	63
Boston, Mass.	32, 206, 267, 456, 720, 753, 865, 866
Brockton, Mass.	675, 752
Brooklyn, N. Y.	175
Burlington, Vt.	555
Calgary, Alberta	526
Centralia, Wash.	391
Chattanooga, Tenn.	175, 753
Chicago, Ill.	134, 206, 865
Chico, Cal.	555
Cincinnati, O.	33, 238, 424, 425, 555, 865
Cleveland, O.	175, 753
Cohoes, N. Y.	493
Columbia, S. C.	526
Columbus, O.	95, 239, 456, 753, 784, 866
Connersville, Ind.	753
Corpus Christi, Tex.	494
Covington, Ky.	425
Crawfordsville, Ind.	752
Crowley, La.	866
Cumberland, Md.	455
Dallas, Tex.	675, 895
Dayton, O.	784
Denver, Col.	267, 526, 752
Des Moines, Ia.	303, 493
Detroit, Mich.	63, 425
East Orange, N. J.	175
El Paso, Tex.	456
Erie, Pa.	819
Evansville, Ind.	175, 456
Fort Scott, Kan.	425
Fort Worth, Tex.	175, 424
Fresno, Cal.	391
Garwood, N. J.	525
Gloucester, Mass.	675
Grand Forks, N. D.	555, 752
Grand Rapids, Mich.	63, 493
Hackensack, N. J.	390
Hagerstown, Md.	391
Hamilton, O.	33
Harrisburg, Pa.	785
Harrisonburg, Va.	675
Hartford, Conn.	391
Haverhill, Mass.	643
Independence, Kan.	819
Indianapolis, Ind.	32, 134, 175, 267, 303, 676, 785, 895
Jacksonville, Fla.	525
Jersey City, N. J.	206
Joliet, Ill.	455
Kansas City, Kan.	819, 866
Kansas City, Mo.	455, 494
Kenosha, Wis.	676
Knoxville, Tenn.	455
Lansing, Mich.	267
Lawrence, Kan.	555
Leavenworth, Kan.	785
London, England	206
Los Angeles, Cal.	33, 391, 424, 456, 675, 676, 753
Louisville, Ky.	494
Lynn, Mass.	238, 267, 303
Macon, Ga.	390
Massillon, O.	63
Memphis, Tenn.	95, 456
Michigan City, Ind.	455
Middletown, Conn.	33

Milwaukee, Wis.	32, 95, 134, 238, 239, 455, 675, 676, 753
Minneapolis, Minn.	33, 174, 303, 456
Modesto, Cal.	63
Monroe, Mich.	391
Montgomery, Ala.	267
Morristown, N. J.	643
Muncie, Ind.	643
Muskogee, Okla.	63
Nashville, Tenn.	494, 676
Natchez, Miss.	643
Newark, N. J.	895
New Bedford, Mass.	676
New Britain, Conn.	134
New Orleans, La.	720
New York, N. Y.	62, 206, 267, 303, 391, 784, 929
Niles, O.	555
Norfolk, Va.	303, 456, 493, 753
North Wildwood, N. J.	134

Ogden, Utah	494, 720
Oklahoma City, Okla.	206
Omaha, Neb.	493
Orange, N. J.	175, 493
Ottawa, Can.	895
Pasadena, Cal.	391, 785
Paterson, N. J.	239
Perth Amboy, N. J.	267, 785
Petoskey, Mich.	63
Philadelphia, Pa.	33, 425, 752, 819, 866, 929
Pittsburg, Pa.	174, 391
Port Arthur, Tex.	526
Portland, Ind.	95
Portland, Ore.	493, 676
Portsmouth, Va.	493
Poughkeepsie, N. Y.	494
Providence, R. I.	455, 643, 676, 753, 895

Racine, Wis.	424
Richmond, Ind.	526
Richmond, Va.	238, 526, 643, 866
Rochester, N. Y.	390, 784, 866
Rogers, Ark.	676

St. Augustine, Fla.	239, 752
St. Louis, Mo.	456
St. Paul, Minn.	494, 526, 555, 785
Sacramento, Cal.	267
Salt Lake City, Utah	175, 425
San Antonio, Tex.	676
San Francisco, Cal.	95, 753
Schenectady, N. Y.	865
Scranton, Pa.	32
Seattle, Wash.	303
South Bend, Ind.	62, 390, 425, 676
Sparta, Ga.	753
Spokane, Wash.	175, 239, 455, 494, 526, 720, 752, 866, 895
Springfield, Mass.	526
Syracuse, N. Y.	493, 720

Tacoma, Wash.	239, 390, 456, 493, 494, 865, 866
Tampa, Fla.	555, 785
Tarrytown, N. Y.	720
Taunton, Mass.	865
Thief River Falls, Minn.	63
Toledo, O.	95, 206, 238, 303, 391, 425, 785
Topeka, Kan.	63, 206, 455, 720
Trenton, N. J.	63, 424, 676

Victoria, Tex.	752
Vincennes, Ind.	555
Walla Walla, Wash.	643
Washington, D. C.	63, 526, 675
Wellsville, N. Y.	525
Wilkes-Barre, Pa.	239
Wilmington, Del.	175, 239, 643, 752
Woodlawn, Pa.	390
Woonsocket, R. I.	390
Worcester, Mass.	785
Youngstown, O.	175, 391, 929

## LEGAL NEWS

Abandonment—Acquisition of Highway	896
—Railway Crossing—Streets	269
Abatement—Sewers—Assessments	644
Access to Street, Interference with	721
Accident, Street—Proximate Cause	755
to Engineer—Negligence	333
Accidents, Street—Notice—Statutes	755
Advertising, City—Incidental Expenses	527
Animals, Stray—Impounding	556
Annexation—Propriety	644
Appeal—Ordinances—Prosecution	588
Appointment of Police Officials	556
Appointments—Civil Service	755
Architects' Contract for City Building	677
Assessment—Due Process of Law	495
of Benefits—Revision	207
—Paving—Bill to Enforce	176
—Paving—City Park	392
—Paving—Corner Lots	495
—Paving—Review	392
—Review—Appeal	556
—Right to Injunction	34
—Special—Installment	721
—Special—Reversion	755
—Taxation—Change by City Council	135
Assessments—Abatement—Sewers	644
—Corner Lots	333
—Manner of Review	644
—Reducing—Public Improvements	645
—Relief—Laches	786
—Right of Appeal from—Statutes	426
—Sewer, Ordinances	930

Assessments—Street—Action to Invali-	677
date	755
—Sufficiency of Ordinance	755
—Validity—Acquisition of Lands for	269
Streets	392
Attorneys—Compensation	392
Attorney's Fees, City	176
Automobile Races—Accident Liability—	393
Use of Streets	556
Bank Shares, True Value of—Taxation	135
Beach Front, Control of—Cities on Ocean	457
Benefits—Change of Grade of Street	96
Bond, Action on Surety—Extra Work	64
Contractor's—Material Man	64
Contractor's—Materials	588
Election, Water—Illegality	457
Bonds, Contractors' Liability of Sureties	96
for Manual Training School	867
—Injunction—Public Improvements	588
—Municipal Purposes	457
—Selection of Paving Material	556
—Sufficiency	820
Water—Ultra Vires—Defences	867
Boundaries—Extension—Procedure	96
Streets—Alleys	644
Building, Moving—Reasonable Use of	755
Street	268
Ordinance—Reasonableness	930
Car Service, Regulating—Police Power	721
Cellarways—Personal Injuries—Obstruc-	393
tions	786
Charcoal Kiln—Abatement—Nuisance	457
Charitable Societies—Licenses—Exemp-	333
tions	495
Charter Construction—Initiative and	34
Referendum	527
Construction of—Initiative and Ref-	392
erendum	135
Cigarette Smoking, Ordinance Prohibit-	527
ing—Reasonableness	393
Civil Service—Appointments	495
Service Examinations—Veterans	97
Comfort Station—Injury to Person Using	392
Commission Government—Statutory Pro-	496
visions	645
Commissioner, Street—Term of Office	135
Commissioners, Park—Corporate Author-	645
ity	97
Park—Power to Make Improvements	393
Compensation—Attorneys	208
—Public Officers	96
—Rights of City to	207
—Suspension of Employee	269
Contemnation, Land—Compensation	240
Land—Public Parks	207
of Land—Died	176
Contempt of Federal Supreme Court	645
Contract, Breach of—Street Railway	97
Franchise	495, 496
Construction of—Pavement Mainte-	677
nance	645
for City Building, Architects	930
for Public Work—Substantial Per-	208
formance	96
for Purchase of Voting Machines	207
for Water Supply—Performance	269
for Water—Violation—Burden of	240
Proof	207
Non-Compliance with—Remedy by	269
Injunction—Dumping Ground	240
Paving—Performance	207
Paving—Rock Excavation—Extra	240
Work	207
Sewer—Construction	645
Sewer—Substantial Performance	367
Water Company's—Changing Rates	176
Water Supply—Cancellation	240
Water Works—Validity	393
Contractor, Injuries to Servants of Inde-	208
pendent	64
—Liability for Negligence	64
Contractor's Bond—Material Man	457
Bond—Materials	820
Contractors' Bonds—Liability of Sureties	305
Contractor, Independent—Acts of City	644
Engineer	304
Contracts—Approval of City Engineer	393
for Public Work—Quantum Meruit	867
—Forfeit of Deposit	721
—Fraud—Interest of Officer	786
—Municipal—Labor Laws	176
—Performance—Extras	34
—Power of Council	392
—Power of Particular Officer	392
—Statutory Provisions—Surety	495
—Use of Public Money	755
Control, Legislative—Municipal Property	457
Corporation Defined, Municipal	34
Counsel, Employment of Special	392
Crossing, Defective—Negligence	135
Damage to Property—Limitation	896
Damages—Change of Grade	208
—Change of Grade of Street	268
—Changing Grade of Street	496
—Claim for—Change of Grade	527
—Highways—Construction	754
—Landslide—Highway Construction	176
—Liability for—Change in Grade of	392
Street	208
—Street Openings	96
Dangerous Premises—Liability of Munic-	867
ipality	930
Trees—Question for Jury	135
Dead Animals, Removal of	208
Death, Action for—Excavation in Street	96
Dedication, Extent of—Streets	867
of Streets—Acceptance	930
Deed—Condemnation of Land	135



# MUNICIPAL JOURNAL

Defective Highways—Injuries .....	755	Highways—Public Easements—Right of		Obstructions, Sidewalk—Injuries—In-	
Sidewalk—Contributory Negligence..	393	Owner of Fees .....	786	structions .....	588
Sidewalk—Liability .....	588	Hospitals—Nuisance .....	305	Sidewalk—Snow and Ice .....	588
Sidewalk—Motive—Sufficiency .....	64	Hotels, Licensing—Police Power .....	333	Ocean Front—Boardwalks—Parks .....	34
Sidewalk—Negligence .....	527			Officer, Power of Particular—Contracts..	176
Sidewalk—New Trial—Diligence .....	527			Officers—Inspector of Buildings .....	305
Sidewalk—Question for Jury .....	268			—Statutory Duties—Mandamus .....	208
Sidewalks—Gratings .....	930			Ordinance, Construction of—Railroads..	333
Sidewalks—Ice .....	896			—House Moving—Electric Wires .....	786
Sidewalks—Notice .....	556			Illegal—Refusal of Mayor to Sign .....	240
Defective Street—Injury—Notice .....	527			Milk—Tuberculin Test .....	305
Street—Injury—Sufficiency of Notice .....	867			Prohibiting Cigarette Smoking—Reasonableness .....	333
Street—Notice .....	269			Sewer—Compliance with Statute .....	588
Street—Water Box .....	135			Sufficiency of—Assessments .....	755
Streets—Contributory Negligence .....	34			Sufficiency of—Sewer District .....	930
Streets—Evidence—Questions for	426			Telephone—Validity .....	820
Jury .....	268			Violation of—Findings—Conclusive-	
Streets—Ice .....	304			ness .....	457
Streets—Injuries to Children .....	527			Violation of Void .....	754
Streets—Instructions—Liability .....	207			Ordinances—Passage—Validity .....	645
Streets—Loose Grating .....	64			—Validity .....	333
Streets—Negligence .....	268			Park Commissioners—Corporate Author-	
Streets—Sufficiency of Notice .....	333			ity .....	135
Streets—Warnings—Lights .....	304			Department—Governmental Functions..	426
Defects in Alley—Liability .....	930			Parks, Dangerous Conditions in—Li-	
in Streets—Actions—Negligence .....	645			bility .....	426
in Streets—Contributory Negligence .....	677			Public—Land Condemnation .....	645
in Streets—Evidence .....	240			Patented Paving Materials—Statutes .....	527
in Streets—Liability of Abutting	426			Pavement Maintenance—Construction of	
Owner .....	392			Contract .....	495
in Streets—Lighting .....	64			Paving Assessment—Bill to Enforce .....	176
Delays—Waiver—Street Improvement .....	64			Assessment—Corner Lots .....	495
Department, Park—Governmental Func-	426			—Change of Grade .....	64
tions .....	426			Material, Selection of—Bonds .....	457
Deposit, Forfeit of—Contracts .....	304			Materials, Patented—Statutes .....	527
Description—Sufficiency—Improvements .....	527			—Public Improvements—Districts .....	820
Detectives, Employment of Private .....	304			Street—Liability for Intersections .....	240
Disfranchisement of Negroes—Municipal	64			Payment, Method of—Street Improve-	
Elections .....	64			ments .....	268
Dismissed—Action for Salary—Patrolmen	645			Peddlers—Power to Tax .....	495
Districts—Paving—Public Improvements .....	820			Permit, Indeterminate—Franchise .....	588
Ditches, Irrigation—Regulation of Streets	426			Permits—Franchises—Telephones .....	527
Drain Land, Right to—Consent of Prop-	34			Petition—Street Improvements .....	208
erty Owners .....	645			Pipe in Highway, Laying—Injunction .....	677
Dumping Ground—Negligence—Liability .....	645			Poles, Permit to Erect Telephone .....	754
Ground—Non-Compliance with Con-	207			Police Captain, Promotion of—Liability	
tract—Remedy by Injunction .....	867			of Commissioner .....	269
Duties, Mandatory Ministerial .....	867			Officer—Removal—Evidence .....	304
				Officers, Appointment of .....	556
Easements, Public—Highways—Right of	786			Power—Licensing Hotels .....	233
Owner of Fees .....	393			Power—Regulating Car Service .....	268
Election, Village—Insufficient Notice .....	64			Regulations—Validity .....	269
Elections, Municipal—Disfranchisement	64			Policeman, Removal of—Compensation .....	588
of Negroes .....	754			Powers—Ultra Vires—Injunction .....	269
Electrical Appliances, Regulating Instal-	495			Prisons—Nuisance—Liability .....	556
lation of .....	495			Promotion of Police Captain—Liability	
Eminent Domain—Municipal Water	930			of Commissioner .....	269
Works .....	930			Property, Municipal—Legislative Control .....	392
Employees, Regulating Working Hours	269			Railroad, Obstruction of Street by—In-	
of Municipal .....	820			junction .....	930
Employment, Municipal—Cemetery Sex-	269			Underground—Taxation .....	496
ton .....	820			Use of Street by—Injunction .....	457
Encroachments, Street—Awnings .....	305			Railroads—Construction of Ordinance .....	333
Engineer, Approval of City—Contracts .....	240			Control of Streets .....	393
Evidence—Injury from Broken Electric	96			Railway Crossing—Streets—Abandonment	
Wire .....	426			Franchise, Regulating Exercise of	
Excavation in Street—Action for Death .....	240			Street .....	820
in Street—Injury—Negligence .....	896			Street—Rights in Use of Highway .....	556
Rock—Extra Work—Paving Contract .....	96			Rates, Changing—Water Company's Con-	
Expenditures, Illegal—Recovery .....	240			tract .....	867
Extra Work—Action on Surety Bond .....	721			for Public Service, Regulation of .....	677
Work—Paving Contract—Rock Ex-	176			Ordinances—Water Companies .....	495
cavation .....	820			Regulation of Gas .....	755
Extras—Contracts—Performance .....	721			Records of Treasurer—Deprivation of	
				Property .....	305
Fee, License—Opening Surface of Streets	867			Recovery—Illegal Expenditures .....	896
Fees, City Attorney's .....	176			Referendum, Initiative and—Construction	
Fire Alarm Company, Private—City	867			of Charter .....	457
Wires .....	392			Provisions, Initiative and .....	207
Chief, Illegal Removal of .....	721			Refuse, Disposal of—Contracts .....	930
Fiscal Management—Warrants—Action .....	64			Regulation of Public Places .....	426
Flooding Land—Measure of Damages .....	896			of Rates for Public Service .....	677
Franchise, Invalid .....	34			Remedies of Taxpayers, Rights and .....	755
No Authority to Grant Perpetual	754			Removal—Evidence—Police Officer .....	304
Utility .....	457			of Fire Chief, Illegal .....	392
of Water Company—Construction .....	820			of Policeman—Compensation .....	588
Prior—Municipal Electric Plant .....	97			Police Judge .....	754
Regulating Exercise of Street Rail-	721			Salaries—Statutory Provisions—Police	
way .....	426			Judges .....	896
Street Railway Breach of Contract .....	135			Salary, Action for—Patrolmen—Dis-	
Telephone—Acceptance .....	588			missed .....	645
Telephone—Illegal Grant .....	496			Schools Free—Special Legislation .....	176
Franchises, Competing—Gas Companies .....	496			Services, Action for—Superintending	
Indeterminate Permit .....	135			Water Works .....	268
Funds, Special—Street Improvements .....	135			Sewage, Discharge of—Prescriptive	
				Right .....	269
Gas Companies—Competing Franchises .....	755			Disposal Plant, Location of .....	304
Rates, Regulation of .....	930			into Water Course, Discharge of .....	588
Grade, Change of—Claim for Damages .....	64			Sewer Construction, Different Systems of	
Change of—Damages .....	754			Contract—Substantial Performance .....	645
Change of—Paving .....	896			District, Establishment of—Validity .....	496
of Street, Change in—Liability for	457			District—Sufficiency of Ordinance .....	930
Damages .....	896			Overflow—Liability .....	269
of Street, Change of—Benefits .....	305			Private—City's Liability for Nuis-	
of Street, Change of—Damages .....	208			ance .....	556
of Street Changing—Damages .....	896			Public—Municipal Indebtedness .....	207
of Street Changing—Liability .....	930			Sufficiency of—Liability .....	755
Grading Street—Injury to Building .....	527			Sewers—Assessments—Abatement .....	644
Streets—Action on Bond .....	135			Sewers—Overflow—City's Liability .....	240
Grants—Lands Under Water .....	896			Sexton, Cemetery—Municipal Employ-	
	527			ment .....	269
Highway, Acquisition of—Abandonment .....	677			Sidewalk, Defective—Proximate Cause of	
Construction—Landslide Damages .....	556			Injury .....	457
Laying Pipe in—Injunction .....	556			Defective—Question for Jury .....	268
Rights in Use of—Street Railway .....	208			Ice—Injuries .....	645
Through Railway Embankment, Opening .....	496			Improvement—Lien on Property .....	176
Highways—Construction—Damages .....	755			Improvement—Reasonableness—Not-	
Cost of Construction .....	207			ice .....	305

# MUNICIPAL JOURNAL

Sidewalk — Obstructions — Injuries — In-	588
structions	
Sidewalks, Care of—Delegation to Indi-	240
viduals	
Defective—Gratings	930
Duty to Repair	305
Injuries—Evidence	426
Ordinance Regarding Obstruction of	721
Pedestrians—Care Required	305
Snow and Ice—Sidewalk Obstructions	588
from Sidewalks, Removal of—Obliga-	
tions	786
Sprinkling Street Car Tracks—Public	
Duty	304
Statutes—Construction and Maintenance	
of Lighting Plant	820
Incorporating of Cities	393
Street, Change of Grade of—Damage	896
Changing Grade of—Liability	896
Defective—Injury—Sufficiency of No-	
tice	867
Encroachments—Awnings	820
Excavation in—Liability	208
Grading—Injury to Building	930
Improvement—Delays—Waiver	64
Improvements—Appeal	135
Improvements—Petition	208
Improvements—Procedure—Method of	
Payment	268
Interference with Access to	721
Obstructing—Rights of Owner	176
Ownership of Dirt in	754
Reasonable Use of—Moving Building	644
Reopening Vacated	268
Widening—Removal of Buildings	393
Streets—Abandonment—Railway Cross-	
ing	269
Acquisition of Lands for—Assess-	
ments—Validity	269
Care of—Negligence	457
Control of—Railroads	393
Dedication of—Acceptance	930
Defective—Contributory Negligence	34
Defective—Definition of Negligence	721
Defective—Evidence—Questions for	
Jury	268
Extent of Dedication	867
Injuries—Negligence	644
Laying Out and Altering	677
Opening Surface of—License Fee	867
Prescription—Payment of Taxes	426
Regulation of—Irrigation Ditches	426
Rights of Abutting Owners	208
Use of—Automobile Races—Accident	
Liability	393
Use of Space Under	97
Vacation of—Public Use	820
Widening—Removing Trees	754
Subcontractor, Negligence of—Liability of	
City	896
Subsurface Space, Permit for Use of—	
Reasonableness	97
Space, Use of—Street Acquired by	
Condemnation	97
Suspension of Employee—Compensation	392
Pending Hearing of Charges	333
Tax, Power to—Pedlars	495
Validity of—Presumptions	588
Taxation—Assessment—Change of City	
Council	135
Counterclaim	677
of Municipal Water Works	786
True Value of Bank Shares	556
Underground Railroad	496
Taxes, Covenant to Pay Public—Con-	
struction	786
Injunction—Street Improvement	97
Telephone Franchise—Illegal Grant	426
Ordinance—Validity	820
Rates, Regulating—Jurisdiction of	
Courts	208
Term of Office—Street Commissioner	392
Territory from Municipal Corporations,	
Excluding	268
Title to Street—Invalid Dedication	97
Titles, Street—Ownership of Easement	97
Street—Ownership of Fee	97
Street—Ownership of Fee—Plats	97
Towns—Actions—Parties	496
Track, Street Railway—Nuisance	426
Tracks, Sprinkling Street Car—Public	
Duty	304
Transfers—Duty to Grant	240
Trees, Dangerous—Question for Jury	392
Removing—Widening Streets	754
Trench, Unguarded—Personal Injuries	930
Ultra Vires—Injunction—Powers	269
Unskilled City Employee—Wages	677
Vacated Street, Reopening	268
Vacation of Streets—Evidence	392
of Streets—Public Use	820
Validity—Ordinances—Passage	645
Veteran, Illegal Removal of—Civil Ser-	
vice	34
Veterans—Civil Service Examinations	495
Vote, Submission to—Water Supply	588
Voting Machines, Contract for Purchase	
of	930
Wages—Unskilled City Employee	677
Warrant, Payment by	930
Warrants—Action—Fiscal Management	721
Waste, Reasonable—Public Water Supply	305
Water Companies—Rates—Ordinances	495
Course, Discharge of Sewage Into	588
Courses—Adverse Uses	176
Lands Under—Grants	135

Water—Main—Right of Way	754
Mains, Extension of—Indemnity	867
Outside of City, Supplying	930
Rates, Public—Discrimination	34
Restraining Diversion of—Laches	721
Supply, City's Liability for Purity of	97
Supply Contract—Cancellation	176
Supply, Contract for—Performance	208
Supply, Polluted—Liability	240
Supply, Public—Private Consumers—	
Injunction	495
Supply, Public—Reasonable Waste	305
Supply—Submission to Vote	588
Works Contract—Validity	240
Works, Proceedings to Establish—	
Validity	754
Works, Taxation of Municipal	786
Widening, Street—Removal of Buildings	393
Wire, Injury from High Voltage—Li-	
ability	304
Wires, City—Private Fire Alarm Com-	
pany	867

## Authors

Adams, Alton D.—"Intense Street Light-	47
ing"	
Bailey, Edward P.—"Fort Wayne Market	409
House"	
Brown, Darius A.—"The Mayor's Cabin-	225
et"	
Case, L. N.—"Water Rates in Duluth"	416
Casey, Chas. Claude—"St. Louis Parks	79
and Boulevards"	
"Municipal Garage and Automob-	
ile Service"	223
"Park Entrance and Public Com-	
fort Station"	513
Easton, R. B.—"Wood Block Paving in	357
Aberdeen"	
Elliott, E. L.—"Street Lighting During	18
1910"	
Filer, H. B.—"Work of Buffalo's Forestry	115
Department"	
Flack, Dr. Horace E.—"Municipal Refer-	82
ence Libraries"	
Fuld, Leonhard Felix—"Efficiency Rec-	774
ords"	
Green, P. E.—"Paving and Lighting a	194
Small City"	
Haldeman, B. Antrim—"Street Widths	805
and Sub-Divisions"	
Hall, Dr. P. M.—"Garbage Collection"	120
Hansen, Paul—"Sprinkling Filter Plant	1
for Suburban Community"	
Hazlehurst, J. N.—"Making Water	287
Rates"	
"Wood Block Pavements of At-	
lanta"	355
Heinly, Burt A.—"Elizabeth Tunnel, Los	411
Angeles Aqueduct"	
Hooke, Robert—"Intercepting Sewer and	605
Sewage Pumping Station"	
Hornaday, W. D.—"Municipal Improve-	575
ments in Mexico"	
Kastenhuber, Jr., E. G.—"Sewage Dis-	441
posal Works at Bordentown"	
Landfield, Jerome B.—"Sidewalk Falla-	775
cies"	
Lykken, H. G.—"Pavements in Grand	380
Forks"	
"Grand Forks Rapid Sand Fil-	
ters"	883
McNeal, John—"Columbia Water Works"	191
Murray, Samuel R.—"Denver Municipal	668
Asphalt Plant"	
"Asphalt Pavement Construc-	
tion"	744
Nolen, John—"Street Standards and	803
'Elastic' Streets"	
Pierce, Daniel T.—"New York Asphalt	448
Pavements"	
Rankin, E. S.—"Small Dredge for Sew-	198
age Channels"	
"Yearly Variation in Cost of	
Pipe Sewers"	446
Rommel, Geo., Jr.—"Wood Block Paving	377
in Pensacola"	
Scheible, Albert—"Tarring Roads and	580
Eye Troubles"	
Scifres, Z. M.—"Squaw Creek Improve-	573
ment"	
Simpson, John—"Liability of Municipal	51
Officers"	
"Dedication of Platted Streets"	479
Tillson, George W.—"Development of	349
Wood Block Specifications"	
Whipple, Melville C.—"Disinfecting	577
Swimming Pools"	

## Municipal Appliances

Air Compressor, Portable	178
Ambulances and Patrols	137
Asphalt Atomizer, Liquid	931
Automobile Show, Vehicles for Municipal	136
Use at National	
Brick, Cork	241
for Swimming Pools, Glass	241
Car, Storage Battery	498
Cart, Automatic Dumping Street Clean-	822
ing	
Cement Sacks, Wire-tied	757
Comptometer Suitable for Engineering	589
Calculations	

Concrete Mixer, Clough	427
Mixer with Measuring and Elevating	
Devices, Continuous	38
of Bank-Run Gravel	209
Conduit, J-M Fibre	270
Crusher, Fine	178
Crushing Plants, Portable	241
Tests, Hydraulic Press for	723
Cups, Paper Drinking	788
Curb and Gutters, Division Plate for	
Constructing Cement	458
—Conduit System	498
Derrick, Portable Gasoline	649
Portable Steel	498
Digging Ditches with Dynamite	39
Electroliter, Concrete	722
Engines, Direct Connected Reynolds-	
Corliss	209
Excavator of the Wheel Type, Gasoline	589
Trench	270
Exhibit, Small Tuberculosis	99
Extinguisher, Dry Powder	
Faucets, Sanitary Drinking	589
Fences, Iron	787
Filter, Reiser Patent	756
Fire Alarm Box	589
Alarm Street Box	558
Alarm System, Rectifiers Charging	
Batteries of	65
and Police Alarm System, Signal-	
phone	723
Engine, New Auto Steam	270
Flooring for Engine Houses, Cork	65
Flushers, Street	528
Flushers, Hose Nozzle for Street	558
Flushing Machine, Sanitary Automatic	
Street	756
Machine, Tiffin	428
Tanks	648
Forms, Collapsible Steel	177
Steel Curb and Gutter	590
Fountain, Sanitary Drinking	178
Fountains, Drinking	427
Garbage Incinerator, Small	307
Plant for Grinding	678
Gas Calorimeter	335
Grapple for Handling Garbage	788
Hose Wagon, New Motor Combination	678
Hydrant, New Sprinkling and Flushing	459
Insulation, Pipe and Boiler	210
Kettles, Tanks and Street	394
Lamp, Duplex Inverted Manile Street	822
Gasoline Street	38
Lamps, Electric Vehicle for Trimming	557
and Inspecting Arc	
Lead Furnace Using Kerosene as Fuel,	
Portable	897
Light, Willson Flare	241
Lighter, Kilchman Automatic Street	757
Locator for Underground Pipes	427
Meter Box Top, New	306
Water Flow	822
Meters, Water	868
Mixer, Large Capacity Continuous	334
Mold, Adjustable Culvert	38
Motor Cycle Improvement	270
Oil Distributor, Perfection	722
Packing for High Temperatures and	
Pressures, Sheet	178
Patrols, Ambulances and	137
Pavement, Armored Concrete	722
Pile, The Pedestal	99
Pipe Cleaner, Service	590
Lowering Appliance	873
Pipes, Locator for Underground	427
Playground Apparatus, Steel	558
Pulley Block, Large	66
Pump and Cylinder, Deep Well	821
for Discharging Water Against Pres-	
sure, Turbo-Impeller	209
Outside Guided Triplex Power	932
The Douglas Contractors' Diaphragm	178
Vertical Thrust Multiple Stage Deep	
Well	872
Pumping Engines, Buffalo Duplex and	
Triplex	821
Outfit, Portable	335
Reinforcement for Concrete Sewers,	
Steel	646
Road Machine Abroad, Ohio	39
Oilier	557
Oilier and Preserver, The 20th Cen-	
tury	498
Roads, Harrow and Scraper for	722
Roller, Buffalo Pitts Steam Macadam	307
Petroleum Tractor	787
Reversible Street	271
Traction Road	458
Rollers, Easy-Running	271
Router, Gang Road	65
Service Box, New Extension	98
Sewer Cleaner, Sieben	210
Cleaning Machine	177
Pipe with Hy-Rib Reinforcement	787
Sheet Piling, Steel	649
Signal System, Police	458



# MUNICIPAL JOURNAL

Sludge Drying Machine.....	98	Tires, Rubber.....	139	Wagon with Spreading Attachment,	
Smoke Meter.....	897	The New Firestone Quick Removable		Three Yard Road Building.....	528
Stall for Fire Engine Houses, Sanitary...	65	Side-Wire .....	38	with Steel Tires, Contractor's Motor	
Street Gauge, Roughen.....	334	Traction Engine, Gasoline.....	98	Dump .....	459
Sweeper Exhibited in New York, Pick-		Trench Machine, New Monahan.....	66	Wagons, Combination Motor.....	459
up .....	497	Truck, Contractor's Motor.....	39	Rambler Motor Combination.....	210
Sanitary Street.....	177	Trucks .....	138	Waste Receptacle for Garbage, Ashes	
Switch, Automatic Float.....	931	Hoisting, Elevating and Dumping		and Combustible Rubbish, Com-	
Switchboard for Kyoto (Japan) Municipal		Bodies for Motor.....	757	bination .....	427
Water Works.....	99	Valve for Controlling Water Level.....	788	Water Supplies, Chlorination Plant for	
Tanks and Street Kettles.....	394	Water Pressure Regulating.....	307	the Disinfection of.....	897
Tape Splice, Eureka.....	65	Vent and Catch Box.....	897	Flow Recorder .....	932
Tile Machine with Mechanical Tamper,		Wagon Dump Box, Substantial.....	334	Tower, Device for Converting Ladder	
Cement .....	428			into .....	334
				Tower, Electrically Propelled.....	306